TODAY 18/04

# Work Order ID. 68562

*Monday, April 18, 2011 6:57:32 AM*



**Item ID:** D4176-1
**Revision ID:**
**Item Name:** 429 Clamp, Top
**Start Date:** 4/18/2011 **Start Qty:** 4.00
**Required Date:** 4/19/2011 **Req'd Qty:** 4.00
**Reference:**

Accept

Setup Start

Stop

**Cust Item ID:**
**Customer:**

**Approvals:** **Process Plan:** **Date:** **Tooling:** **Date:**
**QC:** **Date:** **SPC (Y/N):** **Date:**

Run Start

Stop

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| Draw Nbr: D4176 / Revision Nbr: A | | | | | | | | | |
| 100 | | 0.00 | | | | | | | |
| Waterjet | | | | | | | | | |
| FLOW CNC Waterjet | **Memo** | 0.00 | | | | | | | |
| | 1-Cut as per Dwg<br>Dwg Rev: A<br>Prog Rev: A | | | | | | | | |
| | 2-Deburr if necessary | | | | | | | | |
| 110 | QC2- Inspect parts off machine FAI/FAIB | 0.00 | | | | | | | |
| QC | | | | | | | | | |
| Quality Control | **Memo** | 0.00 | | | | | | | |

KB 11-4-18

(6)

KB 11-4-18

Scrap Eng Lab
11.06.02

# Work Order ID 68562

*Monday, April 18, 2011 6:57:32 AM*



**Item ID:** D4176-1 **Accept** **Setup Start** **Stop**

**Revision ID:**

**Item Name:** 429 Clamp, Top

**Start Date:** 4/18/2011 **Start Qty:** 4.00 **Cust Item ID:**

**Required Date:** 4/19/2011 **Req'd Qty:** 4.00 **Customer:**

**Reference:**

**Run Start** **Stop**

**Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

**QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| 120<br>QC<br>Quality Control | QC8- Inspect parts - second check<br>**Memo** | 0.00<br>0.00 | | | | 4 | | | |
| 130<br>Brake NC<br>Brake NC | Form as per dwg<br>**Memo** | 0.00<br>0.00 | | | | 6 | | | |
| 140<br>QC<br>Quality Control | QC5- Inspect part completeness to step on W/O<br>**Memo** | 0.00<br>0.00 | | | | 6 | | | |

# Work Order ID 68562

*Monday, April 18, 2011 6:57:32 AM*



**Item ID:** D4176-1 **Accept** **Setup Start**

**Revision ID:** **Stop**

**Item Name:** 429 Clamp, Top

**Start Date:** 4/18/2011 **Start Qty:** 4.00 **Cust Item ID:**

**Required Date:** 4/19/2011 **Req'd Qty:** 4.00 **Customer:**

**Reference:**

**Run Start**

**Approvals:** **Process Plan:** **Date:** **Tooling:** **Date:**

**Stop**

**QC:** **Date:** **SPC (Y/N):** **Date:**

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| 150 | Identify as per dwg & Stock Location: 453 | 0.00 | | | | 11/4/05 | | | |
| Packaging | **Memo** | 0.00 | | | | | | | |
| Packaging | | | | | | | | | |
| 160 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| QC | **Memo** | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

A. Test. 11.04.21 Rec'd.

MF

11-04-18

# Picklist Print



*Monday, April 18, 2011 6:57:29 AM*

**Work Order ID:** 68562

**Parent Item:** D4176-1

**Parent Item Name:** 429 Clamp, Top

**Start Date:** 4/18/2011 **Required Date:** 4/19/2011

**Start Qty:** 4.00 **Required Qty:** 4.00

**Comments:** IPP Rev:A 10.09.29 new issue DD verf:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M304S14GA | | Purchased | No | | | 100 | sf | 29.5000 | 0.0403 | 0.169684 | 4 | | |
| 304SS sheet .080 | | | | | | | | | | | BH 4-18 | | |

| Location | Loc Qty | Loc Code |
|---|---|---|
| MAT020 | 29.5 | |
| 113295 | 29.5 | |

113295

(6)

| DART AEROSPACE LTD | Work Order: | 18562 |
|---|---|---|
| | | |
| Description: Clamp, Top | Part Number: | D4176-1 |
| | | |
| Inspection Dwg: D4176 Rev: A | | Page 1 of 1 |

## FIRST ARTICLE INSPECTION CHECKLIST

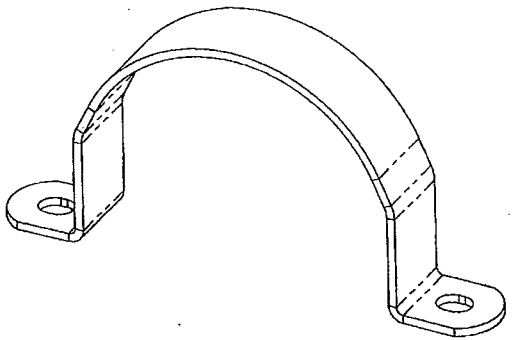
| Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|---|---|---|---|---|---|---|
| Ø0.266 | +0.006/-0.001 | .266 | ✓ | | V LB 07 | |
| 0.328 | +/-0.010 | .331 | ✓ | | V | |
| 0.75 | +/-0.030 | .762 | ✓ | | V | |
| 0.431 | +/-0.010 | .430 | ✓ | | V | |
| 0.375 | +/-0.010 | .375 | ✓ | | V | |
| 6.879 | +/-0.010 | 6.881 | ✓ | | V | |
| 7.74 | +/-0.030 | 7.733 | ✓ | | V | |
| 0.080 | +/-0.010 | .074 | ✓ | | V | |

| Measured by: | B |
|---|---|
| Date: | 11-4-18 |

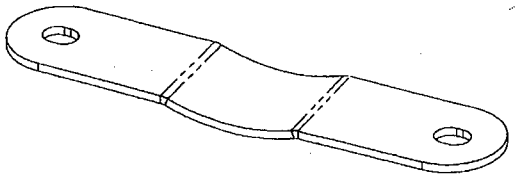
| Audited by: | S |
|---|---|
| Date: | 11/04/18 |

| Preliminary Approval: | — |
|---|---|
| Date: | — |

| Rev | Date | Change | Revised by | Approved |
|---|---|---|---|---|
| A | 10.11.12 | New Issue | KJ | |



D4176-1 429 CLAMP, TOP



D4176-3 429 CLAMP, BOTTOM

w16 68562

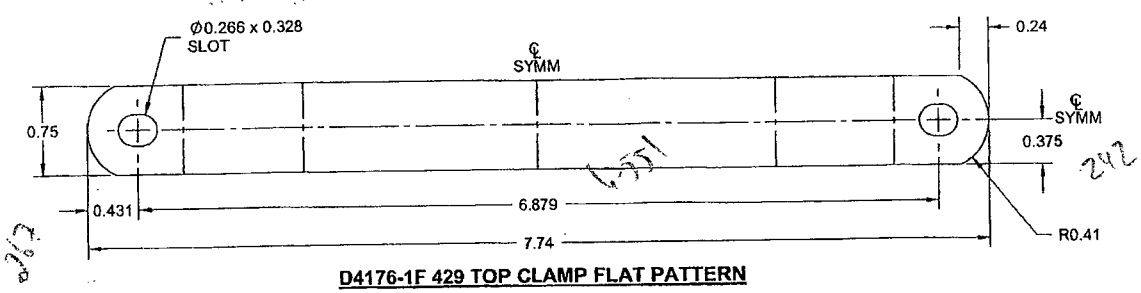
RELEASED
2010 -10- 07

NOTES:
1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-X" PER QSI 044 6.1
7) WEIGHT:
- D4176-1 = 0.12 lbs
- D4176-3 = 0.08 lbs

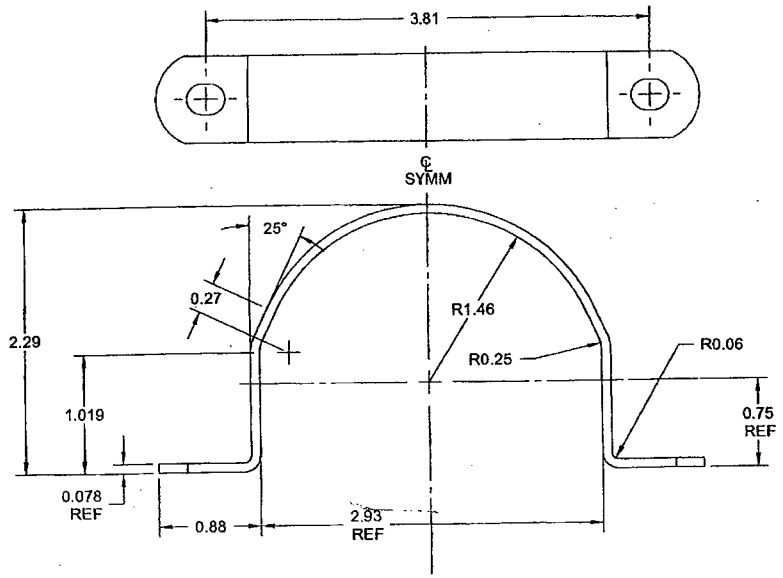
| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | NEW ISSUE | MB | 10.09.27 |

| | | |
|---|---|---|
| DESIGN | DART AEROSPACE LTD | |
| DRAWN | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | DRAWING NO. D4176 | REV. A |
| MFG. APPR. | | SHEET 1 OF 3 |
| APPROVED | TITLE 429 CLAMP | SCALE NTS |
| DE APPR. | | |
| DATE 10.09.27 | | |

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**D4176-1F 429 TOP CLAMP FLAT PATTERN**

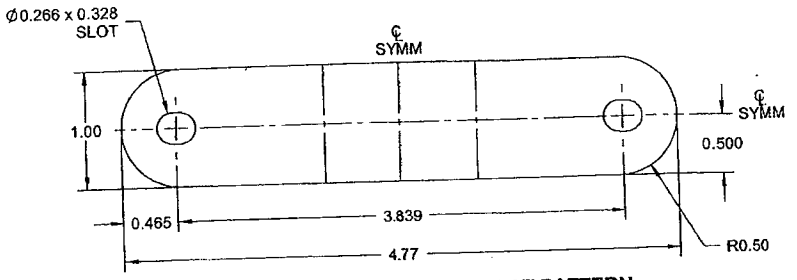



**D4176-1 429 CLAMP, TOP**
(MAKE FROM D4176-1F)

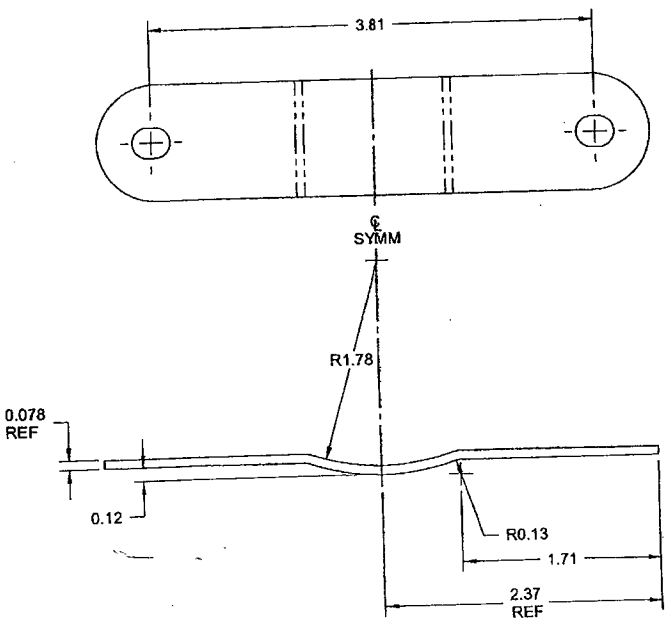
RELEASED
2010 -10- 07

| | | |
|---|---|---|
| DESIGN | | DART AEROSPACE LTD |
| DRAWN | | HAWKESBURY, ONTARIO, CANADA |
| CHECKED | | DRAWING NO. D4176 — REV. A |
| MFG. APPR. | | SHEET 2 OF 3 |
| APPROVED | | TITLE 429 CLAMP — SCALE NTS |
| DE APPR. | | |
| DATE 10.09.27 | | |

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**D4176-3F 429 BOTTOM CLAMP FLAT PATTERN**




**D4176-3 429 CLAMP, BOTTOM**
(MAKE FROM D4176-3F)

68562

RELEASED
2010 -10- 07

| | | |
|---|---|---|
| DESIGN | | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA |
| DRAWN | | DRAWING NO. D4176 — REV. A |
| CHECKED | | SHEET 3 OF 3 |
| MFG. APPR. | | TITLE 429 CLAMP — SCALE NTS |
| APPROVED | | |
| DE APPR. | | |
| DATE 10.09.27 | | |

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# Receiving Report

Date: 9/14/20 Batch No: M13295

Supplier: MAENS Dart P/O: 10809

Packing Slip: Yes ✓ No ___ Release Note Attached: Yes ✓ No ___ N/A ___

Invoice: Yes ___ No ✓ Waybill Attached: Yes ___ No ✓

Receipt: Cash ___ Cr ___ Shipment Complete: Yes ✓ No ___ N/A ___

QC6 Inspection ✓ N/A ___

Work Order 22406 N/A ✓

Discrepancies

| Part Number | Description | Quantity Ordered | Quantity Received | Quantity Returned | Quantity Short | Comments |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Initials of receiver (if shipment OK)** Level 12 ✓

Production/Admin: Date 9/14/20

Received/Costing Initial ✓

Location ___

H:\FORMS\Purchasing\approved purch\RECREPORT Rev D

# Purchase Order Receipt Listing



*November 30, 2009 7:51:48 AM*

All amounts are calculated in domestic currency.

All Vendors PO ID PO10809 Receipt Dates from 11/30/2009 to 11/30/2009 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

| Purchase Order ID/ Curr Type | Line Nbr/ Insp Req | Project ID | Reference/ Description/ Cert Std | PO U/M / Stock U/M | Required Date Required Qty | Recv Date/ Recv Emp | Recv Qty (PO U/M) | Cost Per Unit/ Recv Value | Inspected Qty/ Rejected Qty (PO U/M) | MRB Qty/ MRB Reject Qty | Book Amt |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **VendorID\Vendor Name** | | | **VC-MAG002 Magna Stainless** | | | | | | | | |
| PO10809 | 1 | | M304S14GA | sf | 11/24/2009 | 11/30/2009 | 160.0000 | $7.50 | 0.0000 | 0 | $1,200.00 |
| CAD | No | | 304SS sheet .080 113295 | sf | 160.0000 | Stores | | $1,200.00 | 0.0000 | 0 | |
| | 2 | | M304S16GA | sf | 11/24/2009 | 11/30/2009 | 320.0000 | $5.31 | 0.0000 | 0 | $1,700.00 |
| | No | | 304/316 Sheet .063 113295 | sf | 320.0000 | Stores | | $1,700.00 | 0.0000 | 0 | |
| | 3 | | M304R1.750 | f | 11/24/2009 | 11/30/2009 | 12.1000 | $20.58 | 0.0000 | 0 | $249.05 |
| | No | | 304 ROUND BAR 1.750 113295 | f | 12.0000 | Stores | | $249.05 | 0.0000 | 0 | |
| | 4 | | M303R0.750 | f | 11/24/2009 | 11/30/2009 | 12.1000 | $3.83 | 0.0000 | 0 | $46.38 |
| | No | | 303 Round Bar 0.750 113295 | f | 12.0000 | Stores | | $46.38 | 0.0000 | 0 | |

| | |
|---|---|
| **Total Received Quantity:** | 504.2000 |
| **Total Qty to Inspect (PO U/M):** | 0.0000 |
| **Total Reject Quantity:** | 0.0000 |
| **Total Receipt Value:** | $3,195.44 |
| **Total Balance Due Quantity:** | 0.0000 |

MAGNA

Magna Stainless
5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 330-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

# PACKING LIST

Page 1 of 1 I020078

SOLD TO
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY , ON
K6A 1K7
Contact: CHANTAL

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY , ON
K6A 1K7
Ship Terms: PREPAID

MTR:Y

SPECIAL INSTRUCTIONS

| Currency | Sales Person | Customer Phone | Customer Fax | Customer PO |
|---|---|---|---|---|
| CANADIAN DOLLARS | ERYCK BLAIS | (613) 632-5200 | (613) 632-1053 | P010809 |

| Sales Order | Terms | Ship Via | Date Ordered | Date Required | Date Shipped |
|---|---|---|---|---|---|
| W021806 | NET 30 DAYS | NIR:R-557065-1 | 11/20/09 | 11/27/09 | 11/27/09 |

| Ordered | Back Ordered | Unit | Description | Bundle # | Heat # | Shipped |
|---|---|---|---|---|---|---|
| | | | STAINLESS ROUNDS | | | |
| 1 | | PC | SRB 304 1-3/4" x R/L | | | |
| | | | 12'10" 100 LB / 1 PC | L029520 | 79354 | 1 |
| 1 | | PC | SRB 303 3/4" x R/L | | | 1 |
| | | | 12'1" 20 LB / 1 PC | L031096 | 423312 | 1 |
| | | | STAINLESS SHEET | | | |
| 5 | | PC | SSH 304 2B 14ga x 48" x 96" | | | |
| | | | 525 LB / 5 PC | C030389 | 829393 | 5 |
| | | | MUST USE HT # 829393 | | | 5 |
| 10 | | PC | SSH 304 2B 16ga x 48" x 96" | | | |
| | | | 840 LB / 10 PC | A030388 | 829394 | 10 |
| | | | | | | 10 |

Bundles: 1 Skids: 1

Approx Weight: 1,485 LB

Received by:_____ Date:_____ Signature:_____

## VIRAJ PROFILES LIMITED

10 IMPERIAL CHAMBERS, FIRST FLOOR,
WILSON ROAD BALLARD ESTATE
MUMBAI 400 038 INDIA

# INSPECTION CERTIFICATE

| CUSTOMER : | ORDER NO. | PACKING LIST. NO. | INSPECTION NO | DATE |
|---|---|---|---|---|
| MAGNA STAINLESS INC (DIV OF CANADIAN SPECIALTY METALS INC.) 5775 RUE KIERAN ST-LAURENT QUEBEC H4S 0A3 | P003627 | IMP/102069 | IMP/102069/6 | 19/05/2009 |
| | BUNDLE NO. 2051172 | | | GRADE T-304/304L |

DESCRIPTION :
STAINLESS STEEL ROUND BARS U/C NO.: I700448 DT. 16/05/2009

Sol u/30 · 09.11.30

PEELED & POLISHED

| SIZE (INCH) | SHAPE | TOLERANCE | LENGTH (FT) | PIECES | WEIGHT (LBS) |
|---|---|---|---|---|---|
| 1 3/4 | ROUND | ASTM A484 | 12' R/L | 13 | 1369 |

## CHEMICAL ANALYSIS

HEAT NO. 79354

| C | Mn | Si | S | P | Ni | Cr | Mo | Cu | N | Co |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.022 | 1.44 | 0.42 | 0.024 | 0.036 | 8.05 | 18.10 | 0.50 | 0.48 | 0.081 | 0.12 |

## TEST RESULT

| .2% YIELD STRENGTH KSI | TENSILE STRENGTH KSI | ELONGATION % | REDUCTION OF AREA % | HARDNESS BHN | GRAIN SIZE |
|---|---|---|---|---|---|
| 44 | 92 | 56 | 70 | 185 | 6 |

**Specification :**
MATERIAL CONFORMS TO ASTM A 276-06,COND.A, A 479/479M-06a, C OND.A, A 193/193M-06b & A320/320M-05a B8 CL1,A484-06b,A 182 /182M-06 COND.A, ASME SA 479-06,COND.A, SA 193-06 B8 CL1, SA 320-06 B8 CL1, SA-182-06 (CHEMISTRY ONLY). NACE MR0175-2002, AMS QQ-S-763 B-06,COND.A, (EXCEPT MARKING ), AMS 5639G/5647H(EXCEPT MARKING).INTERGRANULAR CORROSION TEST AS PER ASTM A 262-02a PRACTICE E, GRAIN SIZE AS PER ASTM E112-96e1. IMPROVED MACHINABILITY QUALITY,UNS-S-30400/S-30403 CERTIFICATE AS PER EN 10204-3.1.

**Remarks :**
MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO FREE FROM CONTINOUS MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1hr/inch, WATER QUENCHED, MELT SOURCE/ADD, MELT & MANUFACTURED: INDIA COUNTRY OF ORIGIN: INDIA. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

We hereby certified that the material described above has been tested and complies with the terms of order/contract.

VIJAYA BANK
5043 / BPFC / BOFCX
Overseas Branch, Mumbai-21

WORKS INSPECTOR

# Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Kunde/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Seen/Usine producteur

Oggetto Prove: - Annealed Cold Drawn
Prüfgegenstand/Item inspected/Fini exige

Avviso di Spedizione: D-VI09017149
Lieferanzeige/Packing list/B.L.

Ordine nr: 907002333 Stock - Canada
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungs-/Melting process/Mode d'élaboration

## CERTIFICATO DI COLLAUDO
## ABNAHMEPRUEFZEUGNIS
## INSPECTION CERTIFICATE
## CERTIFICAT DE RECEPTION
## EN 10204 (2005) , 3.1

Certificato nr: MEST774991/2009/
Prüfung/Test/Essai

Conferma ordine nr: EI09004135
Works/Our Order/Ref n.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poinçon de l'expert

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 303 A,CF
ASTM A314 2008 S30300
DOD-F-24669 E S30300
(0) SEC.II PT.A 2007 EDITION ADD. 2008a

AMS 5640 U TYPE1
ASTM A320 2008 B8F
MIL-S-862 B/1 303

~~ASME SA320~~ 2007 B8F (0)
~~ASTM A582~~ 2005 S30300
~~QQ-S-764~~ B/2 303

Quantità: 303
Werkstoff/Nuance/Nuance

Marca: MV188ZHS MAXIVAL
Materialbezeichnung/Brand/Marque

Punzonatura: 303
Kennzeichnung/Marking/Marquage

| Pos. nr. / Item nr. / Art. de poste | Oggetto / Description / Désign. de produit | Dimensioni - in / Abmessungen / Dimension / Dimension | Tolleranza / Toleranz / Allowance / Tolérance | Lunghezze - in / Länge / Length / Longueur | Colata / Schmelze / Lieu / Coulée | Pezzi / Stückzahl / Pieces / Pièces | Peso - LB / Gewicht / Weight / Poids | Lotto nr. / Los nr. / Lot nr. |
|---|---|---|---|---|---|---|---|---|
| 0010 | Round | 0,7500 | 484-06B | 146 / 147 | 423312 | | 4.744 | 834700760 |

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind u. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été fourni conforme aux exigences

Controllo antimiscelanza: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Anti-mixing testing performed: OK
Contrôle antimélange fait: r.s.a.

Controllo visivo e dimensionale: soddisfa le esigenze
Sichtprüfung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks satisfactory
Contrôle visuel et dimensions: satisfaisant

### TEST ALLO STATO DI FORNITURA
Test on delivery condition Prüfung auf lieferbereitem produkt Test à l'état de fourniture Prueba sobre el material así como entregado

| TEST | Provetta/Probenstab / Spécimen (direzione Long./Quer/Trasv./Long.) mm | °F | Posiz. Saggio / Probenlage / Position | Snervamento / Streckgrenze / Yield Stress / Limite élastique Rp 0,2% k.s.i. | Snervamento / Streckgrenze / Yield Stress / Limite élastique | Resistenza / Zugfestigkeit / Tensile strength / Résistance à traction Rm k.s.i. | Allungamento / Bruchdehnung / Elongation / Allongement E 4d % | | Strizione / Einschnürung / Reduction of area / Striction RA % | | Resilienza / Kerbschlagarbeit / Impact Value / Résilience | Durezza / Härte / Hardness / Dureté HB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Valori richiesti / Anforderungen/Anhaltswerte / Values demanded | | min / max | | 30 | - | 75 | - | 35 | - | 50 | - | 140 / 241 |
| A | 12,5 | 68 | L | 70 | | 101 | | 43 | | 51 | | 239 |

(L=Längs/Longitudinale/Longit., T=Quer/Transversale/Transv., Q=Tangenziale/Tangential)

## Analisi chimica
Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

| Colata / Schmelze/Coulée | C % | Si % | Mn % | Cr % | Mo % | Cu % | Ni % | Co % | P % | S % | Zr % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| min - max 0,150 | | 1,00 | 2,00 | 17,00 - 19,00 | 0,00 | 1,00 | 8,00 - 10,00 | - | - 0,15 | 0,15 - 0,40 | - 0,400 |
| 423312 | 0,035 | 0,45 | 1,96 | 17,68 | 0,35 | 0,60 | 8,50 | 0,109 | 0,03 | 0,33 | 0,004 |

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 0,5h/water.
Micro and macro etch test: OK
Material is DFARS Compliant

Melted and manufactured in Italy *No welding or weld repair* *Material free from Mercury contamination*
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1,s.4.3 by TUEV and LLOYD'S

| Vicenza, 29/07/09 VDO/mc (Mod. MCE13) | Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzoli | Pagina - 1 di 1 |
|---|---|---|

05.11.30

P006321 - 423312

P005349 - 829393

**NOTICE OF SHIPMENT/ PACKING LIST**

ATI Allegheny Ludlum
Allegheny Technologies

**CERTIFICATE OF TEST**

AL 6108-3 900

| CUST. ORD. NO. & DATE | | CUST. CODE | ACCEPTING MILL | SHIPPER NO. | PRODUCT CODE | MILL ORDER NUMBER | DATE SHIPPED |
|---|---|---|---|---|---|---|---|
| 05349 | 06/05/09 | 574738 | VANDERGRIFT, PA. | 427038 | 13020102060000 | 30-069-202 | 08/06/09 |

| FORMS DISTRIBUTION SOLD TO | SHIP TO | SPEC | REPEAT ORDER | DO RATE | PRIORITY | GOVT CONTRACT | MATL | SHIPPING LOCATION | | INVOICE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 94045-0 | 28 | | 7219.14.0000 | 1121 | VANDERGRIFT | PA | 668451 |

SOLD TO
MAGNA STAINLESS
5775 KIERAN ST.
QUEBEC CANADA H4S 0A3
SAINT-LAURENT

PRIME DSO 20 SEC. DSO

SHIP TO
COILEX
1450 GRAHAM BELL
QUEBEC ZIP CODE: J4B 6H5
BOUCHERVILLE CN

09/4/30

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

CARRIER - CUSTOMER TRUCK

| ITEM | PCS | DIMENSIONS W/G/L | HEAT # | COIL # | TEST # | GROSS | TARE | NET | THEC | TAG #/ CD | SKID # |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 1 | 48./.075/2021. | 829393 | 07109N172 | 8763075 | 21130 | 50 | 21080 | | 651551 | |
| C CUST IDENTITY 304B075X48 | | | | | | | | | | | |
| | 1 | SKID | | | | 21130 | 50 | 21080 | | | |

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

| TYPE | HEAT/TEST | --C--- | --MN-- | --P--- | --S--- | --SI-- | --CR-- | --NI-- | --N--- |
|---|---|---|---|---|---|---|---|---|---|
| HEAT | 829393 | .05 | .97 | .033 | .0005 | .44 | 18.2 | 8.1 | .07 |

| ITEM | TEST NO | YIELD PSI * | TENSILE PSI | % ELONG IN 2" | % R/A | HARDNESS | BEND | | GRAIN SIZE | HARDENABILITY |
|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 8763075 | | | | NR | 83.HRBW | NR | NR | NR | NR |
| | | T 48000. | 92500. | 55. | | 84.HRBW | | | | |

* Y.S. BY 0.2% OFFSET METHOD

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 01 - CONTINUED ON PAGE 02

08/06/09 11:37:26

**CONSIGNEE** Please Note—this consignment was turned over to carrier in first class condition, being correctly loaded, at which time carrier responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-225-5577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

**WARNING**
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-225-5577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST

ATI Allegheny Ludlum
Allegheny Technologies

CERTIFICATE OF TEST

AL 0188-3 909

| CUST. ORD. NO. & DATE | | CUST. CODE | ACCEPTING MILL | SHIPPER NO. | PRODUCT CODE | MILL ORDER NUMBER | DATE SHIPPED |
|---|---|---|---|---|---|---|---|
| 05349 | 06/05/09 | 574738 | VANDERGRIFT, PA. | 427038 | 13020102060000 | 30-069-202 | 08/06/09 |

| FORMS DISTRIBUTION | | | | REPEAT ORDER | DO RATE | PRIORITY | GOVT CONTRACT | MATL. | SHIPPING LOCATION | | INVOICE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOLD TO= | 1 | SHIP TO= | SPEC= | 94045-0 | 28 | | 7219.14.0000 | 1121 | VANDERGRIFT | PA | 668451 |

SOLD TO
MAGNA STAINLESS
5775 KIERAN ST.
QUEBEC CANADA H4S 0A3
SAINT-LAURENT

PRIME DSO 20
SEC. DSO

SHIP TO
COILEX
1450 GRAHAM BELL
QUEBEC ZIP CODE: J4B 6H5
BOUCHERVILLE CN

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

CARRIER - CUSTOMER TRUCK

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 17 DATED 05/12/2008. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001. DIN EN 10204:2005 - 3.1. ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD-MERK BLATT WO/TRD100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND , PA FACILITIES OR A NADCAP AND ISO/IEC 17025 ACCREDITED LABORATORY.

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:
C,S BY COMBUSTION/INFRARED
N,O,H BY INERT FUSION/THERMAL CONDUCTIVITY
MN,P,SI,CR,NI,MO,CU,CB,CO,V BY WDXRF
B BY OES
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB,BI,AG BY GFAA

<<<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>>>
<<<<<<<< REGISTER AT WWW.ALCEXTRA.COM >>>>>>>>

PAGE 02 - FINAL PAGE.

08/06/09 11:37:26

CONSIGNEE - Please Note--This consignment was turned over to carrier in last class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing).

WARNING
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Tracy McFarland
Director, Corporate Quality Assurance

P005349_829394

NOTICE OF SHIPMENT/
PACKING LIST

ATI Allegheny Ludlum
Allegheny Technologies

CERTIFICATE OF TEST

AL 6169-3 908

| CUST. ORD. NO. & DATE | | CUST. CODE | ACCEPTING MILL | SHIPPER NO. | PRODUCT CODE | MILL ORDER NUMBER | DATE SHIPPED |
|---|---|---|---|---|---|---|---|
| 05349 | 06/05/09 | 574738 | VANDERGRIFT, PA. | 427038 | 13020102060000 | 30-069-187 | 08/06/09 |

| FORMS DISTRIBUTION SOLD TO | SHIP TO | SPEC | REPEAT ORDER | DO RATE | PRI-ORITY | GOVT CONTRACT | MATL. | SHIPPING LOCATION | | INVOICE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 94045-0 | 28 | | 7219.14.0000 | 1121 | VANDERGRIFT | PA | 668450 |

SOLD TO
MAGNA STAINLESS
5775 KIERAN ST.
QUEBEC CANADA H4S 0A3
SAINT-LAURENT

PRIME DSO 20 SEC. DSO

SHIP TO
COILEX
1450 GRAHAM BELL
QUEBEC ZIP CODE: J4B 6H5
BOUCHERVILLE CN

8 07/14/09

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

CARRIER - CUSTOMER TRUCK

| ITEM | PCS | DIMENSIONS W/G/L | HEAT # | COIL # | TEST # | GROSS | TARE | NET | THEO | TAG #/ CD | SKID # |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 1 | 48./.060/2149. | 829394 | 07099N793 | 8763049 | 20670 | 50 | 20620 | | 651358 | |
| C CUST IDENTITY 304B060X48 | | | | | | | | | | | |
| | 1 | SKID | | | | 20670 | 50 | 20620 | | | |

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

| TYPE | HEAT/TEST | --C--- | --MN-- | --P--- | --S--- | --SI-- | --CR-- | --NI-- | --N--- |
|---|---|---|---|---|---|---|---|---|---|
| HEAT | 829394 | .06 | .95 | .034 | .0003 | .47 | 18.2 | 8.1 | .06 |

| ITEM | TEST NO | YIELD PSI * | TENSILE PSI | % ELONG IN 2" | % R/A | HARDNESS | BEND | | GRAIN SIZE | HARDENABILITY |
|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 8763049 | | | | NR | 83.HRBW | NR | NR | NR | NR |
| | | T 45500. | 94000. | 58. | | 83.HRBW | | | | |

* Y.S. BY 0.2% OFFSET METHOD

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PAGE 01 - CONTINUED ON PAGE 02

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Tracy McFarland
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST

ATI Allegheny Ludlum
Allegheny Technologies

CERTIFICATE OF TEST

AL 6168-3 909

| CUST. ORD. NO. & DATE | | CUST. CODE | ACCEPTING MILL | SHIPPER NO. | PRODUCT CODE | MILL ORDER NUMBER | DATE SHIPPED |
|---|---|---|---|---|---|---|---|
| 05349 | 06/05/09 | 574738 | VANDERGRIFT, PA. | 427038 | 13020102060000 | 30-069-187 | 08/06/09 |

| FORMS DISTRIBUTION | | | | REPEAT ORDER | DO RATE | PRI-ORITY | GOVT CONTRACT | MATL. | SHIPPING LOCATION | | INVOICE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOLD TO | 1 | SHIP TO | SPEC | 94045-0 | 28 | | 7219.14.0000 | 1121 | VANDERGRIFT | PA | 668450 |

SOLD TO
MAGNA STAINLESS
5775 KIERAN ST.
QUEBEC CANADA H4S 0A3
SAINT-LAURENT

PRIME DSO 20
SEC. DSO

SHIP TO
COILEX
1450 GRAHAM BELL
QUEBEC ZIP CODE: J4B 6H5
BOUCHERVILLE CN

GRADE AND SPECIFICATIONS

CARRIER - CUSTOMER TRUCK

ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

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C,S BY COMBUSTION/INFRARED
N,O,H BY INERT FUSION/THERMAL CONDUCTIVITY
MN,P,SI,CR,NI,MO,CU,CB,CO,V BY WDXRF
B BY OES
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB,BI,AG BY GFAA

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<<<<<<<< REGISTER AT WWW.ALCEXTRA.COM >>>>>>>>

PAGE 02 - FINAL PAGE.

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Tracy McFarland
Director, Corporate Quality Assurance

DART aerospace
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

# PURCHASE ORDER

**Purchase Order ID** PO10809

**Purchase Order Date** 11/20/09

**PO Print Date** 11/20/09



Order From : VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

FAXED

| | | | |
|---|---|---|---|
| Contact Name | | **Buyer** | Chantal Lavoie |
| Vendor Phone | 800 363 6646 | **Requisition Nbr** | |
| Vendor Fax | 514 339 1105 | **Tax Resale Nbr** | 10127-2607 |
| Vendor Account Nbr | | **Terms** | Net 30 |
| | | **Currency** | CAD |
| | | **FOB** | |

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

| Line Nbr | Reference / Revision ID / Vendor Part Number | Description / Mfg ID | Req Date / Taxable | Req Qty / Unit of Measure | Ship Method | Unit Price | Extended Price |
|---|---|---|---|---|---|---|---|
| 1 | M304S14GA | 304SS sheet .080 | 11/24/09 Yes | 160.00 sf | Yours ppd | $7.5000 | $1,200.00 |
| | | **Special Inst:** | MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH ASPER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 | | | | |
| 2 | M304S16GA | 304/316 Sheet .063 | 11/24/09 Yes | 320.00 sf | Yours ppd | $5.3125 | $1,700.00 |
| | | **Special Inst:** | AS ABOVE | | | | |
| 3 | M304R1.750 | 304 ROUND BAR 1.750 | 11/24/09 Yes | 12.00 f | Yours ppd | $20.5830 | $247.00 |
| | | **Special Inst:** | MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 (NOTE: 303 NOT ACCEPTABLE) | | | | |

MEC 12/12

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required when applicable

Change Nbr: 1 **Change Date:** 11/20/09

DART aerospace
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

# PURCHASE ORDER

**Purchase Order ID** PO10809

**Purchase Order Date** 11/20/09
**PO Print Date** 11/20/09



**Order From :** VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

| | | | |
|---|---|---|---|
| Contact Name | | **Buyer** | Chantal Lavoie |
| Vendor Phone | 800 363 6646 | **Requisition Nbr** | |
| Vendor Fax | 514 339 1105 | **Tax Resale Nbr** | 10127-2607 |
| Vendor Account Nbr | | **Terms** | Net 30 |
| | | **Currency** | CAD |
| | | **FOB** | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | M303R0.750 | 303 Round Bar 0.750 | 11/24/09<br>Yes | 12.00 | Yours ppd | $3.8333 | $46.00 |

Nec 12-10 12/11/27

**Special Inst:** MATERIAL: AISI 303 ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

**PO Total:** $3,193.00

MATERIAL CERTIFICATION REQ'D UPON DELIVERY

U 62

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required when applicable

**Change Nbr:** 1 **Change Date:** 11/20/09